



# FortiManager 4000D

## QuickStart Guide



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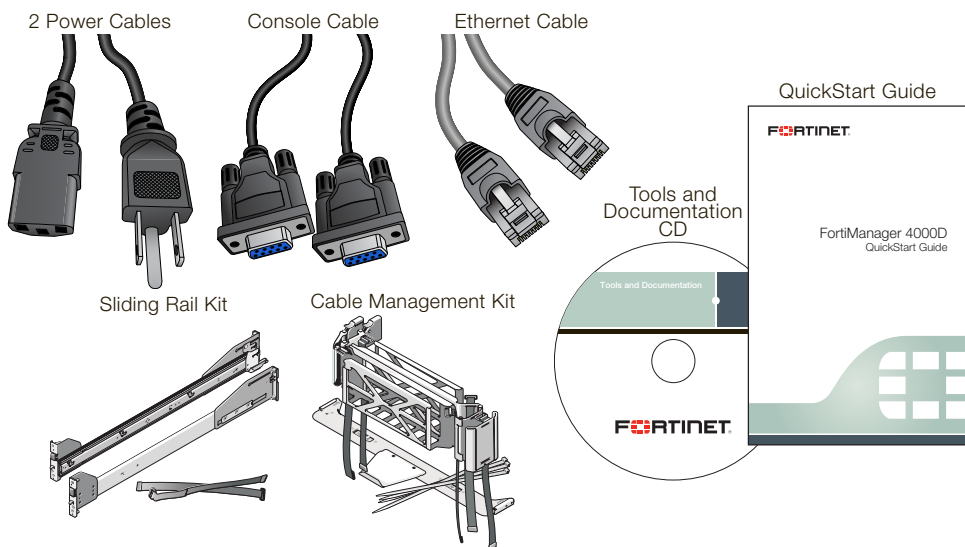
# Package Contents

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Fortinet's consolidated security solutions provide an integrated set of core security and network services in a single, easy-to-manage, high-performance appliance that is capable of supporting a wide range of deployment scenarios.

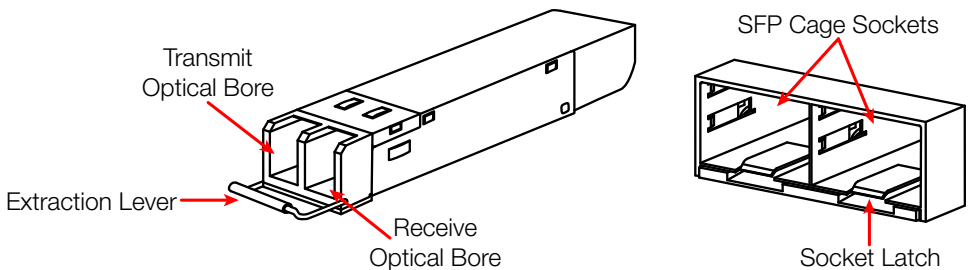
Your box contains the following:

- FortiManager 4000D
- QuickStart Guide
- Tools and Documentation CD
- 2 Power Cables
- Console Cable
- Ethernet Cable
- Sliding Rail Kit
- Cable Management Kit



**Note:** Accessories may not be exactly as shown.

# SFP Transceivers



**Caution:** SFP transceivers are static sensitive devices. Use an ESD wrist strap or similar grounding device when handling transceivers.

**Caution:** Do not install or remove SFP transceivers while fiber-optic cables are still attached. This can cause damage to the cables, cable connectors, and the optical interfaces. It may also prevent the transceiver from latching correctly into the socket connector.

**Note:** Installing and removing SFP transceivers can shorten their useful life. Do not install or remove transceivers more than is necessary.

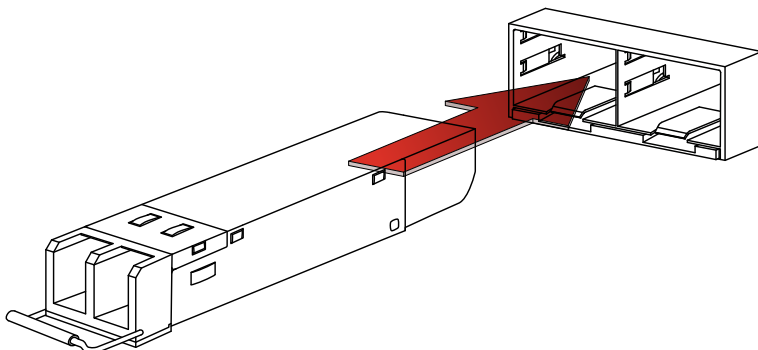
## To install the SFP transceivers:

1. Ensure that you are properly grounded.
2. Remove the caps from SFP cage sockets on the front panel of the unit.
3. Position the SFP transceiver in front of the cage socket opening and ensure that the transceiver is correctly oriented.

When the transceiver is correctly oriented, the extraction lever will be level with the socket latch.

**Note:** SFP cage socket orientation may vary. Ensure that the SFP transceiver module is correctly oriented each time that you are inserting a transceiver.

4. Hold the sides of the SFP transceiver and slide it into the cage socket until it clicks into place.



**Caution:** Do not force the SFP transceivers into the cage slots. If the transceiver does not easily slide in and click into place, it may not be aligned correctly or may be upside down. If this happens, remove the SFP transceiver, realign it or rotate it and slide it in again.

5. Press the transceiver firmly into the cage socket with your thumb.
6. Verify that the transceiver is latched correctly by grasping the sides of the and trying to pull it out without lowering the extraction lever.

If the transceiver cannot be removed, it is installed and latched correctly.

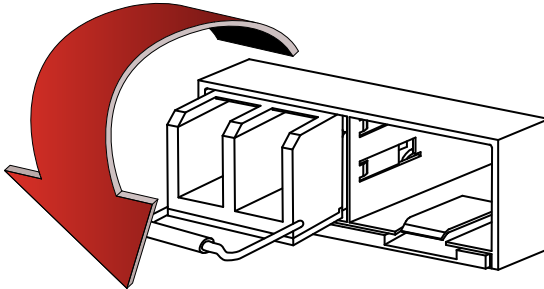
If the transceiver can be removed, reinsert it and press harder with your thumb.

If necessary, repeat this process until the transceiver is securely latched into the cage socket.

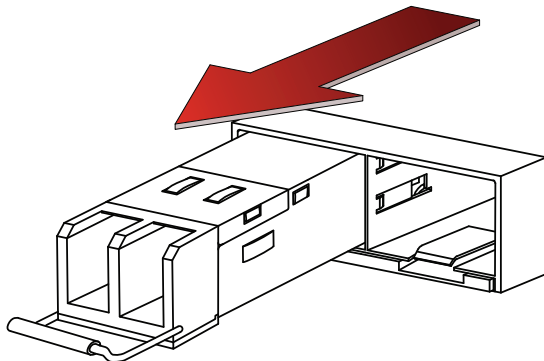
### To remove the SFP transceivers:

1. Ensure that you are properly grounded.
2. If applicable, disconnect the fiber-optic cable from the transceiver connector and install a clean dust plug in the transceiver's optical bores.
3. Pull the extraction lever out and down to eject the transceiver.

If you are unable to use your finger to open the lever, use a small flat-head screwdriver or other similar tool to open the lever.



4. Hold the sides of the transceiver and carefully pull it away from the cage socket.



5. Replace the cap on the SFP cage socket and place the removed SFP transceiver into an antistatic bag.

**Note:** Follow proper fiber-optic handling procedures when installing and removing SFP transceivers to ensure the devices remain clean and are not damaged.

# Installing Your Device

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The FortiManager unit can be mounted in any standard 19 inch (48.3 cm) rack unit with the provided sliding rail kit.

Please read the Cautions and Warnings section prior to installing your device.

**Caution:** Electrostatic discharge (ESD) can damage your Fortinet equipment.

## **To install the FortiManager unit into a rack:**

**Caution:** To avoid personal injury or damage to the unit, it is recommended that two or more people install the unit into the rack.

1. Ensure that the FortiManager unit is placed on a stable surface prior to rack-mount installation.
2. Assemble the rails and install the system in the rack following the safety instructions and the rack installation instructions in the Hardware Installation Guide available on <http://docs.fortinet.com>.
3. Verify that the spacing around the FortiManager unit conforms to requirements and that the unit is level.
4. Optionally, connect a keyboard, mouse, and monitor.
5. Connect the system's power cable(s) to the system and, if using a monitor, connect the monitor's power cable to the monitor.
6. Bend the power cable into a loop and secure the to bracket using the provided strap.
7. Plug the other end of the power cables into a grounded electrical outlet or a separate power source, such as an uninterruptible power supply (UPS) or a power distribution unit (PDU).
8. Insert one end of the provided Ethernet cable into the one of the 4 ports on the FortiManager unit. Insert the other end to a router or switch that is connected to the Internet.
9. Press the power button on the system to turn on the device.

**Note:** If the unit has a redundant power supply, each power cable should be connected to a different power source. In this way, if one power source fails, the other may still be operational and the unit will not lose power.

**Caution:** Do not place heavy objects on the unit.

# Configuring Your Device

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The FortiManager unit requires some basic configuration to add it to your network. These basic steps include assigning IP addresses, DNS settings, and the default gateway. Until these steps are completed traffic will not flow through the device.

The FortiManager unit can be configured using the Web-based Manager or the Command Line Interface (CLI).

This section will step you through both methods of connecting to the unit. Use whichever method you are most comfortable with.

## To Connect to the Web-based Manager:

1. Connect the FortiManager unit Ethernet port 1 to a management computer using the provided Ethernet cable.
2. Configure the management computer to be on the same subnet as the internal interface of the FortiManager unit:
  - a. Browse to the *Network and Sharing Center > Change Adapter Settings > Local Area Connection Properties > Internet Protocol Version 4 (TCP/IPv4) Properties*.
  - b. Change the IP address of the management computer to 192.168.1.2 and the netmask to 255.255.255.0.
3. To access the FortiManager unit Web-based Manager, start a browser of your choice and browse to <https://192.168.1.99>.
4. Type `admin` in the *Name* field, leave the *Password* field blank, and select *Login*.

You can now proceed with configuring your FortiManager unit.



## To Connect to the CLI:

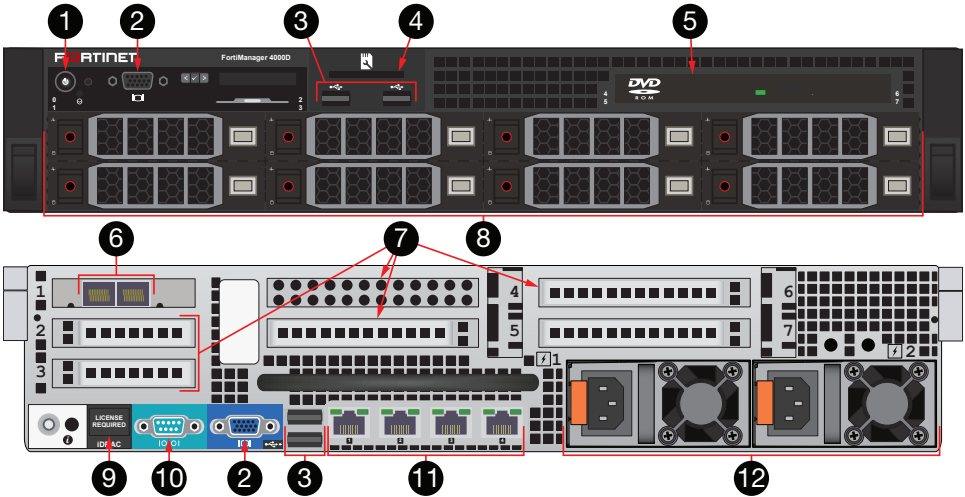
You can configure all FortiManager configuration options from the CLI using *config* commands. The CLI also includes *get*, *show*, *diagnose*, and *execute* commands for performing various configuration and monitoring tasks.

1. Connect the FortiManager unit console port to the management computer using the provided console cable.
2. Start a terminal emulation program on the management computer. Use the following settings:
  - Baud Rate: 9600
  - Data bits: 8
  - Parity: None
  - Stop bits: 1
  - Flow Control: None
3. Press *Enter* on your keyboard to connect to the CLI.
4. Type `admin` in the *Name* field, leave the *Password* field blank, and press *Enter*.

You can now proceed with configuring your FortiManager unit.

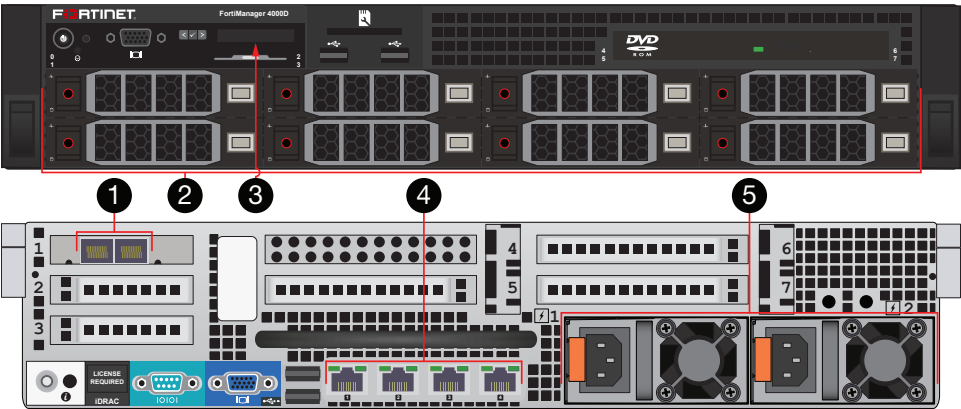
**Note:** If a RAID failure halts the booting process, press any key to continue booting, or press `c` to load RAID configuration utility.

# Technical Specifications



#	Interface	Type	Description
1	Power Button		Power button with integrated green power LED.
2	Video	VGA	Two video ports for connecting monitors to the system.
3	USB	USB-A	Four USB ports for firmware backup and installation.
4	Flash Media	SD	Connects an SD memory card for the optional iDRAC7 enterprise card.
5	Optical Drive	SATA	DVD drive.
6	SFP Ports 5 & 6	SFP	1Gbps/auto small form-factor pluggable transceiver ports.
7	PCIe Slots	PCIe	Six PCIe (Generation 2) expansion slots. <ul style="list-style-type: none"><li>• Low Profile: Slot 2 = x8-link, Slot 3= x8-link</li><li>• Full Length: Slot 4 = x16-link, Slot 5 = x8-link, Slot 6 = x16-link</li></ul>
8	Hard Drives	SATA	Eight 2TB hard drives.
9	iDRAC7 Enterprise Port		iDRAC7 Enterprise management port.
10	Console Port	DB-9	Optional serial connection to the Management Computer. Provides access to the CLI.
11	Ethernet Ports 1 - 4	RJ-45	Integrated Gigabit Ethernet 4-port switch connection for the internal network.
12	Power Supplies		100-240V AC, 50-60Hz, redundant power supplies.

# LED Specifications



#	LED	State	Description
1	Ports 5 & 6	Amber	Port is connected at 1Gbps.
		Green	Port is connected at 10/100Mbps.
		Off	Port is offline.
2	Hard Drives	Green	The drive is online.
		Flashing Amber 4 Times per Second	The drive has failed.
		Flashing Green, Amber, and Off	The drive is predicted to fail.
		Flashing Green 2 Times per Second	The drive is rebuilding.
		Off	The drive is ready for insertion or removal.
3	LCD Panel	Blue	The system is operating normally.
		Amber	The system requires attention. An error code will be displayed.
4	Ethernet Ports Link/Activity	Flashing Green	Port is transmitting and receiving data.
		Off	Port is not connected.
4	Ethernet Ports Speed	Green	Port is connected at 1Gbps.
		Amber	Port is connected at less than 1Gbps.
		Off	Port is not connected.
		Green	The power supply is operational.
5	Power Supplies	Flashing Amber	The power supplies are mismatched.
		Off	Power is not connected.

# Cautions and Warnings

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Please review the following cautions and warnings.

## **Environmental and mounting specifications**

Operating temperature: 10 - 40°C (50 - 90°F)

Storage temperature: -40 - 65°C (-40 - 149°F)

Humidity: 20 to 90% non-condensing

Operating Altitude: <2250m (7400ft)

**Elevated Operating Ambient:** If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature ( $T_{ma}$ ) specified by the manufacturer.

**Reduced Air Flow:** Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.

**Mechanical Loading:** Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.

**Circuit Overloading:** Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

**Reliable Earthing:** Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips).

## **Federal Communication Commission (FCC) – USA**

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received; including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

**WARNING:** Any changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## **Industry Canada Equipment Standard for Digital Equipment (ICES) – Canada**

CAN ICES-3 (A) / NMB-3 (A)

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

## **Voluntary Control Council for Interference (VCCI) – Japan**

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## **Bureau of Standards Metrology and Inspection (BSMI) – Taiwan**

這是甲類的資訊產品，在居住的環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策。

## **China**

此为A级产品，在生活环境中，该产品可能会造成无线电干扰。这种情况下，可能需要用户对其采取切实可行的措施。

## **European Conformity (CE) - EU**

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

## **Grounding**

Ensure your Fortinet product is connected and properly grounded to a lightning and surge protector. WAN or LAN connections that enter the premises from outside the building should be connected to an Ethernet CAT5 (10/100 Mb/s) surge protector.

Shielded Twisted Pair (STP) Ethernet cables should be used whenever possible rather than Unshielded Twisted Pair (UTP).

Do not connect or disconnect cables during lightning activity to avoid damage to your Fortinet product or personal injury.

Electrostatic discharge (ESD) can damage Fortinet equipment. Only perform the procedures described in this document from an ESD workstation. If no such station is available, you can provide some ESD protection by wearing an anti-static wrist strap and attaching it to an available ESD connector or other bare metal object.

**Caution:** Disconnect power supply cords before servicing

**Caution:** For devices that contain a battery there is a risk of explosion if battery is replaced by an incorrect type. Recycle used batteries according to your local regulations.

**IMPORTANT:** Switzerland: Annex 4.10 of SR814.013 applies to batteries.

## **警告**

本電池如果更換不正確會有爆炸的危險

請依製造商說明書處理用過之電池

# Documentation and Links

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The following Fortinet web pages provide information and resources for your Fortinet product:

**1. Customer Service & Support:** <https://support.fortinet.com>

On this page you can create a support account with Fortinet, register and manage your products, download updates, firmware images and release notes, and create technical support tickets.

**2. Technical Documentation:** <http://docs.fortinet.com>

This page provides the most up-to-date versions of Fortinet publications for the entire family of Fortinet products.

**3. Knowledge Base:** <http://kb.fortinet.com>

This page provides Fortinet technical documentation, such as troubleshooting, how-to articles, example configurations, FAQs, technical notes, and more.

**4. Technical Discussion Forums:** <https://support.fortinet.com/forum>

This page allows you to communicate with other customers and Fortinet partners about Fortinet products, services, and configuration issues in a forum environment.

**5. Training Services:** <http://training.fortinet.com>

This page provides course descriptions, availability, schedules, and locations of training programs in your area.

**6. FortiGuard Threat Research and Response:** <http://www.fortiguard.com>

This page provides up-to-date information on vulnerabilities and threats, and includes a virus scanner, Internet Protocol (IP) signature look-up, web filtering tools, and related information.

## Tools and Documentation CD

The tools and documents on this CD are current as of shipping time.

## Comments on Technical Documentation

Please send comments or information about any errors or omissions in this or any Fortinet technical documents to [techdoc@fortinet.com](mailto:techdoc@fortinet.com).

# Register Your Product

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If you have not registered your Fortinet product, please register your product now.

## Register

Register your Fortinet product in order to receive:

- Technical Support
- New product features
- Protection from new threats

## Enregistrer

Vous devez enregistrer le produit pour recevoir:

- Support technique
- Nouvelles fonctionnalités du produit
- Protection contre de nouvelles menaces

## Registra

La reistrazione ti permette di usufruire di:

- Supporto Tecnico
- Nuove funzionalita
- Protezione dalle ultime minacce

## Registrar

Debe registrar el producto para recibir:

- Apoyo técnico
- Nuevas funcionalidades del producto
- Protección contra ataques

## 登録のお願い

本日、フォーティネット製品の登録をしてください。

登録すると次のメリットがあります。

テクニカルサポート・新機能の追加・新しい脅威への防御

## 请马上注册

您的飞塔产品

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**Web: <https://support.fortinet.com/>**

**Toll free: 1 866 648 4638**

**Phone: 1 408 486 7899**

**Fax: 1 408 235 7737**

**Email: [register@fortinet.com](mailto:register@fortinet.com)**

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